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Remarks On Board Bark Smyrna
Sailed October the 21 1845

All this Week lite Gales and Clear weather nothing accurd there the speed Winds S E Cours S E

Lat by Obs 35.11 N
Long by Chro 63.40 W

Remarks Oct 28 1845

First part of this Week Comes With hevy Gales and Rainy Middel and Last part lite Winds and fine Weather With all Sail set Winds from West to East the Cours East

Lat by Obs 35.58 N
Long by Chron 59.18 W

Remarks November the 5 1845

First part Comes With fresh Breze and Squaly Middel part more moderat not all sail out Later part Strong Breze spoke the Bark Panthere of Fall River 19 Days out Bound to the N West Winds from S E by E to W by S Cours N E by N to S E by S

Lat by Obs 36.50 N
Long by Chron 41.21 W

Remarks November the 13 1845

All this Week lite Winds and fine Weather this Day Seen Whales going quick to Windward did not Lower Bark Panthere loard 2 Boats set four Top Mudding sail the 18 Day Spoke the America of New Bedford 24 Days out and the Marth of Fare haven so ends fitting Cating gear and Fining Jib Foreign Winds from N W to S W Cours S E

Lat by Obs 33.00 N
Long by Chro 31.00 W

New Bedford On Whaling Voyge to the
Remark November 20th 1845

First part lite Winds bent Flying Jib and Main Royal Middel and Later parts ~~[illegible]~~ Modrat Strong Breeze and Squaly with all sail saw Humpbacks so ends this Week Cours S E by S to S W Winds N E to S W.

Lat by Obs 21.44 N
Long by Chron 24.10 W

Remarks Nove 28th 1845

First part Strong Breeze made the Isl of Fogo and Brave at 1 PM the Boat went onn Shore Sundown Came of and Foot away Middel part more modrat Later part much the same see Blak fish and Pod up Four Fog Talent Poigen so ends this Week Cours S B W to S E by E Winds N E to E S

Lat by Obs 5 42 N
Long by Chron 20.55 W

Remarks December 6th 1845

First part Comes with lite Winds and Gunny With the Brothers of London and Brig from Boston Bound to Rio Middel and Later part much the same so ends Fine Weather Cours S W by W Vary Winds from S E to South

Lat by Obs 2.21 N
Long by Chron 23.28 W

Remarks December 14th 1845

First part Comes with strong Breeze spoke the Bark Hecla of Sippecun 81 day out Middle and Later part much the same with Variddler Winds with Squals of Rain Cours S W by W Winds S E by S

Lat by Obs 2.00 N
Long by Chron 24.49 W
Long by Lunar 24.45 W

Pacific Ocean Hillman Master

Remarks Dec 22 1845

This Week comens with fresh Breze spoke the Danish Bark the Cap loard down and went to his but would not let him come along side Middle and Later part strong Breze Cours S S W Winds S E by E Lat by Obs 8.57 S

Long by Chronometa 32.11 W

Remarks December 30 1845

First part comens with strong Breze spoke the Ship Heron of Nantuket 51 Months out with 100 of Sperm Oil Middle part more moderat Later fine Breze Cours S S W Wind S E by E Cours S by W Winds N E by E

Lat by Obs 25.32 S

Long by Chron 36.54 W

Remarks January th 4 1846

Fast part of this Week comens with strong Breze Middle part moderat and Cloudy and Rainy Later part moderat with fine Weather employed in mending Main Topsail Courses S by W to W S W Winds from North to South

Lat by Obs 31.43 S

Long by Chrom 46.24 W

Remarks Tuesday January th 13 1846

Comens With fresh Breze took in lite sails and Dubel Reeft Topsails Cours S W Winds West Lat 33.17 S Long 42.39 W the th 14 First part lite Wind Middle and later parts fresh Breze Dubel Reeft Topsails Cours S W by W Wind East Lat by Obs 34.51 S Long by Chrom 45.11 W the 15 Comens with fresh Breze Later part hove to under Dubel Reeft Maintopsail Cours S W by W Wind East

Remarks On Board Bark Smyrna

Remarks Friday Genewary th 16 1846

All these 24 hours heavy Gales from the North to N W Middel part heavy squalls with Rain later part more moderat so ends Cours S E by E Lat by Obs 34 33 S

Long by Chrom 45 43 W

Remarks Saterday th 17 1846

These 24 hours Commences with heavy Gales and Cloudy Middel part stood Boats Crew Watches latter part made sail so ends moderat Breeze wind S W by W Cours N by W Lat by Obs 34 20 S

Long by Chrom 45 45 W

Remarks Monday th 18 1846

First part Commences with lite Breeze from W S W Cours S by E with heavy swell from the West Latter part Rain took in the Foure Topsail so ends lite gales and squaly Winds S S E Cours W by W Lat by Obs 34 52 S

Long by Chrom 46 01 W

Remarks Tuesday th 19 1846

These 24 hours Commences with lite gales and squaly sat Foure Topsail and took it in again shorten sail fore the tonight Latter part made sail so end Securing Foure Topsail Wind S E by S Cours W S W

Lat by Obs 38 25 S

Long by Chrom 48 39 W

Remarks Wednesday th 20 1846

First part moderat the watch employd in mending foure Topsail see a sail Middel part shorten sail latter part made sail so end employd in setting up bed Place Wind East Cours North

Think

Lat by Obs 38 18 S

[illegible] Bedford to the Pacific Ocean was a

Remarks Friday January th 22 1846

All these 24 hours moderate Breeze and all sail middle part shortened sail for the bright latter part made all sail so ends the Watch employed in taking down the [illegible] see Grampus and Hesperus Wind [illegible] Coast at 4 P M

Lat by Obs 39 22

Long by Chron 49 48 W

Long by Lunar 49 49 W

Remarks Friday January th 23 1846

All these 24 hours moderate & Variable sail for the bright latter part made sail so ends board a Boat and took a Sperm fish [illegible] Coast 1 P M

Lat by Obs 39 44

Long by Chron 49 35 W

Long by Lunar 49 45 W

Remarks Saturday th 24 1846

All ~~this~~ day fine weather with a light Breeze shortened sail for the bright latter part made all sail so ends employed in [illegible] all

Lat by Obs 39 33 S

Remarks Sunday th 25 1846

All these 24 hours light breeze see a sail middle and latter parts much the same Wind at N W Coast at E

Remarks Monday th 26 1846

All these 24 hours Calm Cut Down of the Ship Adaline of New Bedford came on board she was 32 months out with 3200 of Sperm Oil Bound to Saint Catherine

Lat by Obs 39 44 S

Long by Chron 46 34 W

Remarks Tuesday January th 27

All these 24 hours moderate Strong Breezes so ends employed in [illegible] Sinbered Boat Hoist [illegible] Coast W at 4 P M

Lat by Obs 38 not [illegible] Long by Chron 48 [illegible]

Thursday Forenoon

[illegible]

Remarks [illegible]

Latter part strong Breeze [illegible]

[illegible]

Remarks Thursday [illegible]

All these 24 hours strong Breeze [illegible]

the Day latter part [illegible]

[illegible]

Lat by Obs [illegible]

Long by Chron [illegible]

Friday

First part of these 24 hours Commence with fresh Breeze Middel and latter made all sail the Watch employed in [illegible]

Wind N by E Course S W

Remarks [illegible]

These 24 hours commence with the [illegible] and Cloudy wet in lite sails Middel and latter part fresh Breeze and cloudy and these 24 hours all sail out Wind [illegible]

Lat [illegible]

Long [illegible]

Remarks Saturday [illegible]

First part of these 24 hours wet to the Westward took in lite sails [illegible] the Topsails [illegible] and latter parts more moderate with [illegible] & W the sprinkle the Clouds are [illegible] clear Weather

Lat by Obs [illegible]

Long by Chron [illegible]

Remarks Monday February 2 1846

All these 24 hours Commences with fresh breeze and fine weather we Sail on with the land to the South a heavy swell having passed the South Foreland and latter part more so with squalls & 5 P.M. double reefed Topsails Wind S.W. by S. Course S.E.

Lat by Obs 44.42.

Long by Chron 5 y. 26 W.

Remarks Tuesday February 3

These 24 hours Commences with fresh breeze the wind from the South course West. At noon steer leading to West. Middle and latter part moderate & 4 P.M. bent on Topsail take two & reef all sail Wind W.S.W. Course S.S.E.

Lat by Obs 44.35 S

Remarks Wednesday Feb 4 1846

These 24 hours Commences with the wind and cloudy 6 P.M. take down Topsail Middle and latter parts Calm so Light Wind S.S.E. course W.S.W.

Lat by Obs 44.26.

Long by Chron 58.51 W.

Remarks Thursday February 5 1846

First part of these 24 hours Commences with a fine Middle and latter parts like air Wind and Calms S.E.

Lat by Obs 44.56.

Long by Chron 59.26 W.

Remarks Friday February 6

These 24 hours Commences with light breeze & 4 P.M. set Fore Topmast Studding sail middle part Thunder and lightning, lost in the night latter part more calm and north Long round wing & wing Boom Wind S.E. & E. Course S.W. by W.

Lat by Obs [illegible]

Long by Chron [illegible]

Remarks Saturday February 7

These 24 hours Commences with lite [illegible]
S W Curent in green water 3 A M sounded
and got 70 fathoms with fine Brown sand
Middel and Latter parts lite airs and
Foggy Wind East Cours S S W

Lat by Obs [illegible]

Long by Chron 60 18 W

Remarks Sunday February 8

These 24 hours Commences with lite [illegible]
5 A M the wind hald sudenly [illegible]
in lite sails dubel Reeft Topsails Latter part
mad all sail Cours S S W

Lat by Obs 44 10

Long by Chron 59 03 W

Remarks Monday February 9

[illegible]

Almeda Co [illegible]

[illegible] C M [illegible]

Jared [illegible] Cal Oct 9 1859

Jared [illegible] Oct 9 1859

Jared [illegible] May 28 1860

Then if again no more we meet
With absent friends most dear
Through life we never shall forget
That, last, that sacred tear

[illegible]

Joseph [illegible] [illegible]

Remarks on Board Bark Empire

16 April the 21 1846

into Valparaiso lade there 10 Days and then came out and went down to Mazatlanda bay & were run away in Valparaiso's to Guanfordes

May the 13 1846

Had come to anchor in Mazatlan bay the windship Catalo she was in there 29 months out with three hundred of spirm oil at Knight discovered the ship to be on fire we succeeded in putting it out 27 we got under way

May the 27 1846

We took to Callao for to discharge 6 men we shipt to Valparaiso and shipt 6 the 30 went out the 8 day of June went in again for to see if they had catch 2 men that runaway they had not so found we then run away when we run into Valparaiso and [illegible] shipt

[illegible] 23 1846

Comes with f[illegible] and in ships duty [illegible] at gun

[illegible] 24 1846

Comes with f[illegible] to take him along side and comes [illegible] scrubed and cleard up decks

[illegible] up Closes 8 p 11

[illegible] 5 p 11

[illegible] stand the Watch

[illegible] Closes 8 p 8 p 1

[illegible] 26 1846

Comes with fore [illegible] holiday till past 3 the board fore wheales [illegible] boat yet one 6 [illegible] hain along side [illegible] boat 6 [illegible]

of New Bedford on a Whaling Voyage

June the 27th 1846

Comes with light trades employed in cleaning away the head & W No started the works

Lat by Obs 1.46 S Long by Ch 87.57 W

June the 28th

Comes with light trades and squaly attended with rains middel part finished boiling latter part set mainsail with fresh breeze took in main topgallansail

Lat by Obs 00.50

June the 29

Comes with light trades and cloudy middel and latter parts squaly so ends see Blackfish

Lat by Obs 1.00 Long by Chronom 88.28 W

June 30th 28

June [illegible]

Comes with light trades [illegible] Whales boats but did not [illegible] st see the Isl of Chatham on [illegible] Islands

Lat by [illegible] Long by Ch 89.06 W

[illegible] light trades [illegible]

Morpheus Chatham [illegible] Modes Isl

steering away boys in [illegible] Obs 1.00

Comes with light tra[illegible] steering away

[illegible] off the isl we sig[illegible] into Nantucket

[illegible] to the isl

Comes with st[illegible] sure down

to Modes Isl Capt [illegible] ship Angel

[illegible] we were bound [illegible] Obs out 800 in

spoon latter part [illegible]

August the 8 Comes with light Breeze and fine weather Kept went over shoar and came over board got redy to Anchor 4 P.M came to Anchor to Chatham is latter part employed in washing Ship

So Ends

August the 9 Comes with fresh Breeze and squaly Boat going of and over from the shoar with Vetabels So Ends

August the 9 Comes with fresh Breeze and squaly Boat of and over from the shoare

So Ends

August the 10 Comes with moderat Breeze 5 P.M the Passengers came aon board fore to gow to Chatham As So Ends

August the 11 Comes with light Breeze George Porter hoing of and over 34 months out with 1200 hunred of Spirme 4 A.M got under way Hard S.E by E

So Ends

August the 12 Comes with fresh Breeze from N.E tack heading to the Eastward spoke the Balaene of New Bedford 4½ half months out with 800 hundred Middel part shorten sail latter part made all sail

So Ends Lat by Obs 41 34 N

August the 13 Comes with light Breeze from N.E and cloudy Weeds is in sight latter part fresh breeze and squally steering down fore Chatham As

So Ends

August the 14 Comes with fresh Breeze 3 P.M came to Anchor Middel and latter parts squally two Boats went after Keeping Chatham

So Ends

August the 15 Comes with fresh Breeze a French Brig came in latter part went over shoar Wooding

So Ends

11

August the 16 46 Cows with fresh Breeze Middel and Latter parts the same all hands went over shoar

So Ends

August the 17 Cows with fresh Breeze Middel part squally with Rain Latter part one Boat Wooding So Ends

August the 18 Cows with fresh Breeze Middel and Latter parts squally one boat went after Tarpins and fetching of Wood

So Ends

August the 19 Cows with light Breeze employed in fetching of Wood

So Ends

August the 20 Cows with light Breeze boat gowing of and over from the shoar

So Ends

August the 21 Cows with fresh Breeze Latter part the same got underway and bade of and over So Ends

August the 22 Cows with fresh Breeze 4 PM Boat came on board made all sail and stood from the land Latter part stode the Anchors S & E So Ends

August the 23 Cows with fresh Breeze from S & E beting to windward at 6 past of Chatham baring East 12 miles dist

So Ends

August the 24 Cows with light Breeze from S & E 4 PM found the curent seting to windward Latter part see Woods Isle Baringtons Isl and the reef in sight Woods Is baring Sett 3 leags dist So Ends

August the 25 Cows with with fresh breeze shaping to the Eastward see Black fish Woods Isl in sight baring N N W 4 leags distanc So Ends Lat by Obs 1.25 Long by Chron 89.50 W

August the 26, 1846 Comes with light breeze and pleasant weather see Black fish Sarbed Boat board & Ship spoke the Aurora of Sanduket 15 months out 950 of Sperm latter part fresh breeze and squally running down for Hoodes Isl bearing N E 9 miles Winds S S E

To Ends

Beco uncle i sit down

August the 27 Comes with fresh breeze and running down fore the Land 3 P M hauld on awind to the Eastward Middel and latter part more moderat Wind S E by E

To Ends

August the 28 Comes with moderat breeze and Cloudy tuk to the S W latter part steere the South fore Chatham Isl Winds S W

To Ends

August the 29 Comes with moderat breeze 1 P M Capt went over shoar 8 do Capt came over board latter part made all sail steering for Porters Isl Barington Barington bearing South 8 miles dist Winds S by W

To Ends

August the 30 Comes with light breeze trying to fetch by Porters Isl latter part running down the Cashing with fresh breeze bent the Chanes 11 A M came to Anchor in Porters harber 8 fathoms of water Winds S S E

To Ends

August the 31 Comes with fresh breeze and clear weather Middel part more moderat latter part comes breaking out for to see how much Water we had and to stow down the Oil

To Ends

September the 1 1846 Comes with fine weather and fresh breeze 8 employed in stowing down Oil Capt Eardner of the Ship Sanduket off Sanduket 12 months out 400 latter part finish stowing down and Cooperd the Brees

To Ends

September the 2 1846 all these 24 hours employed in braking out in the foare hole for Water and coopering Bread

So Ends

Sept the 3 1846 these 24 hours comes with light breze and fine weather employed in stowing of foare hole and washing ship Latter part 2 Boats went on shoar for Potatoes So Ends

Sept the 4 Comes with with light Breze S & W boat came on board with Potatoes Latter part one boat went in a Wooding So Ends

Sept the 5 Comes with fresh breze one Boats crew on shoar wooding 11 A M got under way running down for James Isl Wind Soth So Ends

Sept the 6 Comes with fresh Breze steering down to the lwest of James Isl employed in stowing away Chanes see a ship Boding Latter part beting betwixt James and Albemarle Islands Wines S E by S So Ends Lat by Obs 00.04 S

Sept the 7 All these 24 hours fine weather beting betwixt Albermarl and James Islands Wind S & E So Ends

Sept the 8 All these 24 hours moderat in Lee Bay see 2 ships and Blak fish Wind S & W So Ends

Sept the 9 These 24 hours Comes with fresh Breze Middel part foggy latter part of Marler Wind Soth & sails in sight So Ends

Sept the 10 Comes with strong Breze Middel and latter parts more moderat employed in h making Bape 4 sails in sight betwixt Marler and Soth head Wind S & E So Ends

September the 11 1846 All these 24 hours fine weather 2 ships in sight soth part of Allemarl baring E by S 18 miles distance Wind S by E

So Ends

Sept the 12 These 24 hours fresh Breeze and fine weather see Black fish the Isl of Narber baring E N E 20 miles distance Wind S E

So Ends

Sept the 13 hours with fresh Breeze run down under the lee of Narber and hade aback latter part made all sail 3 ships in sight Isl baring N E 6 miles distance Wind S E

So Ends

Sept the 14 hours with fresh Breeze cared away Main top gallant rigen employed in fitting new 2 ships in sight Wind E by S Narber baring East 10 miles So Ends

Sept the 15 hours with light Breeze employed in fitting main to Talent Rigen spoke the hon Isaac Hamlet Capt Bunker 48 months out with 1950 of Sperm see Blak fish got one 2 ships in sight Narber baring E N E 15 miles dist Wind S E

So Ends

Sept the 16 hours with fresh Breeze and fine Weather employed in fitting up main top Talent Rigen and painting the chanes 2 ships in sight soth part of Allemarl baring S E 8 miles distance So Ends

Sept the 17 All these 24 hours fresh Breeze spoke the honrs Coffin of Nantucket Capt Commenced 36 months out 1050 of Sperm 250 of Whale 2 Ships in sight soth part of Allemarle baring N E 15 miles dist Wind S E

Sept the 18 All these 24 hours light Breeze and squally Wind Four Topsail 3 ships in sight soth head baring N by E 8 miles Wind S E

So Ends.

September the 19 1846 All these 24 hours light Breezes employed in filing Windlass spoke Constitution 4 Ships in sight Soth head bearing S E 15 miles dist Wind S E

So Ends

Sept the 20 hours with light Breeze in company with the Constitution toward for Sperm Whales did not get any Latter part see Whales again with the Constitution & Aurora the Constitution got one soth head 1 miles dist 3 ships in sight Wind Soth

So Ends

Sept the 21 All these 24 hours light Breezes and pleasent weather see Whales toward Wash Boat got one and the Aurora one took him along side cut him in of Soth near 3 ships in sight So Ends

Sept the 22 hours with fresh Breeze employed in cuting 2 Sp Wh finished and cleared up Deck Latter part squally and Boiling see Whales board did not get any 2 Ships in sight the land bearing S E 15 miles dist Wind S E

So Ends

Sept the 23 hours with fresh Breeze Latter part the same with squally finished boiling 3 Ships in sight Soth part of Albemarle bearing S E Wind S E So Ends

Sept the 24 All these 24 hours fresh Breeze the Current running S W 3 Ships in sight Wind S E land in sight So Ends.

Sept the 25 All these 24 hours moderat see the Bark Equator of New Bedford Capt Mathews 3 & months out 1300 hundred see a large Whale board did not see him again Wind Soth Soth head bearing East 10 miles dist

So Ends

Sept the 26 1846 These 24 hours Cons with fresh Breeze swep Boats with Equator Middel part light airs fr with a heavy swell from the South 3 Ships in sight clost in to sotte head Wind S.S.E

So Ends.

Sept the 27 All these 24 hours moderat see Finback 3 Ships in sight South head baring S.E 12 miles distanc Wind S.S.E

So Ends

Sept the 28 All thes 24 hours moderat and heavy swell from the South bent a fach 3 Ships in sight South head baring S.E 15 miles distanc Wind S.S.E.

So Ends.

Sept the 29 All these 24 hours moderat watch employed in mending fr shorten sail fore the light latter part made sail 2 sails in sight South head baring S.E 20 miles distanc Wind South

So Ends.

Sept the 30 These 24 hours Cons with fresh Breeze parted Foare Topmast head stay spoke Hatamak 2 yr mouths out with 1900 hundred Middel and latter parts moderat watch employed in fiting stay betwixt South head and Nasber Winds variables

So Ends

October the 1 1846 Cons with fresh Breeze capt went over shoar in weather bay for to look for a wooding place Middel and latter part much the same 3 Ships in sight south head baring East 25 miles dist Winds S.S.E

So Ends

October the 2 All these 24 hours light Breeze employed in repearing S.S. 2 Ships in sight Harbrer baring E.S.E. 12 miles dist Wind South

So Ends

October the 3 1846 All these 24 hours light
Breeze and pleasant weather one ship in sight
Barbers bearing E.N.E 30 miles distance
Winds South So Ends

October the 4 Comes with fine weather
4 P.M. see Whales board Lasbard Boat got
one Latter part cut him in North head
bearing E.S.E 10 miles distance Winds S.E. W.
So. Ends.

October the 5 All these 24 hours light airs
employed in clearing up decks 1 Ship in
sight in Lee Bay Winds South
So. Ends

October the 6 All these 24 hours light airs
and Boiling 2 P.M board for Whales Lasbard
Boat got one Latter part cut him in
in Lee Bay Winds South
So Ends

October the 7 All these 24 hours fine weather
one P.M see Whales board but did not get
any one ship in sight in lee Bay
So. Ends.

October the 8 All this 24 hours comes with
fresh Breeze 4 P.M. spok Ship Lafayette of New
Bedford Capt. Smith 24 months out 800 of Whale
and 600 of Spirm 8 A.M finish Boiling of Barbers
with a strong Current running to South
Wind South So Ends

October the 9 Comes with fresh Breeze
employed in washing ship Middel and
Latter parts more moderat Barbers bearing
East 2 miles distance So Ends Wind S.E.

October the 10 All these 24 hours moderat 4 P.M
one Boat went in Fishing Latter part employed
in washing Bends and Painting of North head
Winds S.E. So. Ends.

Remarks On Board 1846

October the 24 Cours with fresh Breeze and equally with all Sail out employed in mending Foresail Winds S.S.W Cours S.E. Lat by Obs 1.10 S

So Ends Long by Ch 81.32 W

Oct the 25 Cours with fresh Breeze employed in mending Foresail Middel and latter parts more moderat see a Brige 10 A.M. see the Land bearing S.E 25 miles distance Wind S.W. by S. Cours

Lat by Obs 00.3 N Long by Chrono 80.44 W

So Ends

Oct the 29 All these 24 hours light Breeze and Cloudy employed mending Foresail and heading off Shoar 4 sails in sight Winds W.S.W. Cours South

So Ends Lat by Obs 00.34 S

Oct the 30 All these 24 hours fresh Breeze standing off and in shoar three Sails in sight one a Steame Boat Cours up the Coast Winds from W.S.W. to S.W by W Cours S by E to W.S.W Lat by Obs 1.00 S

So Ends

Oct the 31 Cours with fresh breeze and Cloudy 6 P.M. see the Isl of de la Plata Middel and latter parts more moderat with thick weather beting up the Coast Wind S.W by W.

So Ends Lat by Obs 1.12 S

Remarks On Board Sunday

November the 1 1846 Cours with moderat Breeze and thick weather Middel part same latter part Equally with rain Cours W.S.W. Winds S.W by W. Lat by Obs 00.45 S

So Ends.

November the 2 All these 24 hours passing Islands Land bazing S.E by E 15 miles distance

So Ends Lat by Obs 1.8 S

Nov the 3 These 24 hours Cours with fresh breeze see Black fish Coast and lock two Coast Sails in sight Middel and latter parts moderat land 10 miles dist Cours W.S.W. by S. heading S.S.E. Lat by Obs 1.55 S

Remarks On Board November 4th

All these 24 hours begins with light breeze Land in sight employed in mending mainsail Wind S.W.by.S. Cours W.S.W.

So Ends

Nov the 5 All these 24 hours fresh Breeze and pleasant weather own bent four Topsail for to repair Wind S.W.by.S. Cours W.S.W.

So Ends

Nov the 6 Cons with fresh Breeze Middel and latter parts moderat employed in mending four Topgalentsail hold out Black fish Wind S.W by S. Cours W.N.W.

Lat by Obs 1.20 S. Long by Chron 88.08 W

So Ends

Nov the 7 begins with light airs and variables bent four top galentsail and ends the same Lat by Obs 1.06 S

So Ends

Nov the 8 All these 24 hours light airs and variables bent Foursail, Lat 1.23 S

So Ends Long 89.29 W

Nov the 9 Cons with a fine breeze Middel part same latter part fine rain Wind S.E by E Cours S.W. Lat by Obs 1.08 S

So Ends, Long by Ch 88.29 W

Nov the 10 All these 24 hours fine Weather see Black fish employed in repairing main top galentsail Wind S.E.by.E. Cours E by S.

So Ends Lat by Obs 2.12 S

Wednesday Nov the 11 Cons with fresh Breeze employed in repairing Main Topgalent sail Middel and latter parts more moderat headed to the Eastward Bent Topgalent sail Wind S.by.E.

So Ends Lat by Obs 2.24 S

Thursday Nov the 12 All these 24 hours light Breezes & Calm more ship heading S.W. latter part steering W.by.S. Wind S by E So Ends Lat by Obs 2.45 S

Remarks On Board Friday November the 13 1846
Begins with light breze steering N.W.by.N. Middel
and latter parts fresh breze employed in repairing
Foar Topsail Wind S.E. hours W.N.W. Lat 2.17 S
So Ends Long by Chron 89.13 W

Saterday Nov the 14 All these 24 hours fresh Breze
steering N.W.by.W. latter part steering North g A No
see Hoodes Isl baring S.W. 12 miles distanc Wind
S.S.E.
So Ends

Sunday Nov the 15 hours with strong Breze
and Cloudy hald to the Westward S of No see
Charles Isl Middel and latter parts more moder at
the Isl baring N.W 24 miles distanc Wind S by W
So Ends.

Monday Nov the 16 All those 24 hours light
Breze see Black fish and a Sail Charles Isl
baring North 30 miles dist Wind S.S.E.
So Ends.

Thusday the 17 All these 24 hours light Breze
heading to the Eastward 2 Sails in sight
Hoodes Isl baring North 10 miles dist Wind
S by E.
So Ends.

Wednesday Nov the 18 hours with light breze
spok Bark Equator of New Bedford 34 months
out with 1530 of Spirm Middel and latter part
fresh breze heading to the Eastward Wind South
So Ends Lat by Obs 1 n 43 S

Thursday Nov the 19 All these 24 hours fresh
Breze 10 P M more Ship heading to the Westward
latter part heading S.W. Hoods Isl baring N by W
18 miles Wind S E
So Ends.

Friday Nov the 20 These 24 hours fine weather
spok Lafayette of New Bedford 28 months out 600 of
Spirm and 800 of Whail heading to the Eastward
Hood Isl baring N.W by W. 12 miles Wind S by E
So Ends.

Saturday, November the 21 1846 All these 24 hours fine weather steering N.E.by N. see Finbacks Wind S.E.by S. Lat by Obs 1.59 S

So, Ends,

Sunday Nov the 22 All these 24 hours fin weather steering N.E.by N. 2 P.M. see Charles Isl & So spok Equator latter part steering, to the North Wind S.E by S,

So, Ends,

Monday Nov the 23 Comes with light Breeze Middel part the same latter part fresh breez South part of Albemarle baring East 10 miles Wind S.E, Equator in sight

So Ends

Tuesday Nov the 24 Comes with fresh Breeze Middel and latter parts more moderate Watch employed in fitting Bob Stase South head baring East 20 miles Wind S.E.

So, Ends,

Wednsday Nov the 25 All these 24 hours light Breeze Middel and latter part the same see, a Sail bent Spanker and Gaff Topsail South head baring E by N. 18 miles Wind S.E by E

So Ends

Thursday Nov the 26 All these 24 hours light breze Watch employed in setting up Bob Stase one Sail in sight South head baring E.by.N. 20 miles Wind S.S.E

So, Ends,

Friday Nov the 27 All these 24 hours fresh Breeze employed in Breaking out foare hole for Hooks steering Southwest Wind S.S by E

So Ends Lat by Obs 1.30.

Saturday Nov the 28 All these 24 hours light airs and variables employed Stowing of Boats had catch one Black fish Steering to the Southwest

So Ends Lat by Obs 1.30

Sunday Nove the 29 All these 24 hours light
Breze Cours E by S Wind South Lat by Obs 1.18.
So Ends Long by Chrom 92.59 W

Monday Nov the 30 All these 24 hours light
airs employed in fiting Sprisel yard and Jib gise
Wind South Cours East Lat by Obs 1.25
So Ends Long by Chrom 92.49 W

Remarks On board December the 1. 1846

Tuesday the 1 All these 24 hours light
Breze employed in fiting Sprisel yard
and boild out Black fish Wind S by E. Cours
East Lat by Obs 1.12 Long by Chrom 92.46 W
So. Ends.

Wednesday Dec the 2 All these 24 hours
moderat employed mending Spanker catch
a Black fish and boild him out Lat by Obs 1.00
So. Ends. Long by Chrom 92.58

Thursday Dec the 3 All these 24 hours
light airs and variables catch three Black
fish see a Sail South part of Albemarle
bearing E by N 20 miles Lat by Obs 1.17
So. Ends.

Friday Dec the 4 All these 24 hours
light Breze and a strong Courrents setting
S. W. South part of Albemarle bearing E. N. E.
35 miles Wind South Cours E by S Lat by Obs 1.12
So. Ends.

Saterday Dec the 5 All these 24 hours
light breze one Sail in sight Land bearing
E. N. E. Wind S. S. E. Lat by Obs 1.15
So. Ends.

Sunday Dec the 6 Cours with light
Breze latter parts fresh breze & Bashes in
sight South head E N E 20 miles Wind S. S. E.
So Ends

Remarks On Board December 1846

Monday the 7th Ull these 24 hours Fresh Breeze three sails in sight South Head bearing N.E.b.N. three miles Wind S.S.E.

So Ends

Tuesday Dec the 8th Ull these 24 hours light airs spoke the Origon of Fashaven Company 18 months out 1050 of South head Wind S.S.E.

So Ends

Wednesday Dec 9 These 24 hours light Breeze steering to the North in company with Equator Barbarer bearing N.E. 4 miles Wind South

So Ends

Thursday Dec 10th These 24 hours light Breeze in company with the Equator see Black fish and Bone Hearts of North head

So Ends

Friday Dec the 11 These 24 hours fine Breeze from West over the N.E side of Albemarl Courrent setting to the Westward Cours S.E.b.E. James and Albenton Islands in sight and Equator

So Ends

Saterday Dec the 12 Comes with light Breeze Middel and Latter parts same see Whales board the Wast Boat got one 2 Sail in sight of N.E past of Albemarl

So Ends

Sunday Dec the 13 Comes with fresh Breeze from the West employed in cutting in Midded part wind N.b.E heading East latter part light airs Equator in sight Albenton Isl bearing North 15 miles

So Ends

Monday December the 14 1846 Cours with light Breeze 4 P.M. comes Boiling Latter part fresh breeze see Whales towed harbord Boat struck and Parted Abenton N.E. bearing N.W. 3 miles Wind S.W. by W.

So Ends

Tuesday Dec the 15 Cours with fresh Breeze Middel and Latter parts more moderat fresh Boiling Abenton N.E. E.S.E. 5 miles Wind S. by E.

So Ends Long by Chron 91.05 W

Wednsday Dec the 16 Begins with fresh Breeze Middel and Latter parts the same Wind S by E. Cours East

So. Ends.

Thursday Dec the 17 Cours with fresh Breeze Middel part more moderat Latter part employed mending main Spencer Wind S by E. Cours E. by N.

Lat by Obs 1.25 N

So. Ends. Long by Chron 88.49 W

Friday Dec the 18 All these 24 hours fresh Breeze lost main Spencer Wind South Cours E. by S.

Lat by Obs 1.14 N

So Ends Long by Chron 87.48 W

Saterday Dec the 19 Cours with moderat weather Middel and Latter parts fresh breeze Wind S.S.E. Cours E. E. by E.

Lat by Obs 00.45 N

So. Ends.

Sunday Dec the 20 Cours with fresh breeze and Cloudy Middel part Rain and tack to the West Wind S.S.E. Cours W. by S.

Lat by Obs 00.23 N

So. Ends. Long by Chron 87.50 W

Monday Dec the 21 Cours with fresh breeze and clear weather Middel part tack again Wind S by E Cours S.W. by W. W.

Lat by Obs 00.03 S

Long by Chron 88.58 W

So. Ends.

Remarks On Board Tuesday December the 22 1846 All these 24 hours fresh Breeze see Porters Isl Wind S E by E Cours S W

So Ends Lat by Obs 00.32.

Wednesday the 23 Cours with fresh breeze Middel and Latter parts more moderat see Cathcarts Isl Wind S W by S Cours S E courses running S W

So Ends.

Thursday the 24 Cours with fresh breeze 1 P M Capt went over shoar to Do came over board Middel and Latter part moderat Wind S E by S cours S W Porters Isl bearing North

So Ends.

Friday the 25 First and Middel parts moderat Latter part fresh breeze running down to the harber 8 A M came to Anchor in Ports Isl in 7 fathoms employed braking out Foare hole to trim Ship

So Ends

Saterday the 26 These 24 hours employed filing salt Water Latter part one Watch kept own liberty one Boat went after Wood

So Ends.

Sunday the 27 First part employed washing Ship and cuting Wood 12 ends labered watch on liberty

So Ends.

Monday the 28 First part watch own shoar Latter part one Boat went after Terpings on gilin Wood

So Ends.

Tuesday the 29 First part boat came over board with 2 terpings Latter part 2 Boats went over to Crosbins Isl after Terpings

So Ends

Jon Bedford on a Voyage in the Pacific Ocean

Wednesday February 3th All these 24 hours light airs of North head 3 ships in sight 10 AM fins Boating

So. Ends.

Thursday Feb 4th All these 24 hours light airs and variables of North part of Albemarl 3 ships in sight Employed mending Yawl Boat

So. Ends.

Friday Feb 5th All these 24 hours light breze from the North finish the Boat 4 Ships in sight

So. Ends.

Saturday Feb 6th All these 24 hours light breze and variables 3 Ships in sight employed mending fill of mother bay So Ends

Sunday Feb 7th All these 24 hours usual breze and variables 3 Ships in sight catch a Black fish and get crack South head bearing East 15 miles

So. Ends.

Monday Feb 8th Comes with light breze from the South middel and latter parts bent the fill own bent flying Jib for to mend

So. Ends.

Tuesday Feb 9th All these 24 hours calm Wash Ship out sid bent flying Jib employed Painting spars

So. Ends.

Wednesday Feb 10th All these 24 hours light airs from the South employed Painting spars South head in sight

So. Ends.

Thursday Feb 11th All these 24 hours calm South part of Albemarl bearing E.S.E. 25 miles Employed Painting the Chain plates

So. Ends.

Friday Feb 12 All these 24 hours calm Employed Painting sails South head bearing S.E. 15 miles

So. Ends.

Saturday Feb 13 All these 24 hours calm South part of Albemarl bearing North 4 miles off

So. Ends.

Remarks on Board Bark Singsma of
Sunday February the 14 Comes with light breeze
from S.W. to S.E. calm land 1½ miles of 6 To load
down and tode till 8 oclock then head a breeze
S.W. latter part calm Beatel Isl baring North
6 miles So. Ends.

Monday Feb the 15 Comes with fresh breeze
and Cloudy standing to the Eastward middel
and latter parts calm see a Ship Charles Isl
baring S.E. 13 miles one man sick
So. Ends.

Tuesday Feb the 16 Comes with fine breeze
from S.E. spoke the Arora of Nantucket 21 months
out 1200 bls middel and latter parts calm
steering to the Eastward Gardners Isl baring
N.N.W. 6 miles one man sick.
So. Ends.

Wednesday Feb the 17 Comes with a fine breeze and
Cloud board for Black fish got one midel part
moderat latter part light squals & Rain see
Whales once board and see nothing more Gardners
Isl baring N.W. 12 miles Wind E.S.E one man
sick So. Ends.

Thursday Feb the 18 first and midde part
thick weather see a sail latter part fine weather
Gardners Is baring N.W.by.N. 20 miles one ship
in sight Wind S.E. one man sick
So. Ends.

Friday Feb the 19 All these 24 hours fine weather
Employed filing main Royal back stais
Hoods Isl baring E.by.N. 8 miles Wind S.by.E. see
a sail one man sick So. Ends.

Saterday Feb the 20 All these 24 hours fine weather
and a breeze 3 sails in sight Hoods Isl East 4 miles
running down to the lear of it Wind South
So. Ends.

Sunday Feb the 21 All these 24 hours fine weather
running down for Chatham bazing N.E. 15 miles
2 ships in sight Wind South So. Ends.

New Bedford On a Voyage in the Pacific Ocean 1849

Monday February the 22 Calms with light breeze spoke the Ranger Smith of New Bedford 19 months out 800 Albinus Adams Master of Fare haven 6 months out 200 Latter part Capt went over shoar laing of and over with light airs

So Ends.

Tuesday Feb the 23 Begins with light airs the other Ships in sight Middel part had came on board latter part calm laing of and over one man came over board to gow over the cost

So Ends.

Wednesday Feb the 24 All these 24 hours moderat Wind at Barington and Chatham Islands 2 Boats went over shoar one man sick

So Ends

Thursday Feb the 25 All these 24 hours light airs and variables hoisted 30 bls of Oil from deck to store down hold out the after Hold Chatham bariing S.E. 20 miles distance

So Ends

Friday Feb the 26 All these 24 hours light airs and variables Employed braking out the four hold and stowing down Chatham Isl in sight Wind S.E. steering East

So Ends.

Saterday Feb the 27 Comd with fine breeze Spoking down latter part see Wales Master Boat got one

So Ends

Sunday Feb the 28 Comd with light airs and variables Employed bating in and so to Wales comes bolting with fresh breeze E.N.E. steering to the Eastward

So Ends

Monday March the 1 All these 24 hours fresh breeze and fair Clouds Employed bating Wind E.N.E. heading E.N.E. Lat 1 Obs 00.25 S

Long by Chron 88.52 W

So Ends.

Remarks On Board Barck Jany on
Thursday March 1st Comes with light
Breeze finished Bailing Latter part fresh
Employed fitting Lasts for Water Wind S.E.
Ends Lat by Obs 1.05
Wednesday March 3rd All the 24 fresh breeze
Employed Repairing Mainsail Wind S.E.
heading E.N.E. Lat by Obs 1.06.N
Ends Long by Chron 8.
Thursday March 4th com with fresh
breeze and fasing clouds Bent Mainsail
and Main top-gallantsail and scail Wind
S by E Cours East
Ends Lat by Obs 1.26.N
Friday March 5 Comes with light breeze
employed Mending Foare Topsail bent it
& the foursail Wind South Cours E by S.
Lat by Obs 1.40.N
Ends, Long by Chron 85.54 W
Saturday Mar 6 Begins with fresh breeze
and ends with the same sat foure topmast
Middlingsail Wind South heading E by S
Lat by Obs 1.06.N
Ends Long by Chron 8.52.5 W
Sunday Mar 7 All these 24 hours fresh
breeze Wind South Cours E by S p.S.
Lat by Obs 00.49 N
Ends Long by Obs 84.59 W
Monday Mar 8 All these 24 hours moderat
Wind South heading E by S. Lat by Obs 00.32.N
Ends Long by Chron 84.4
Tuesday Mar 9 All these 24 hours moderat
Sail a Sail Wind S.E. W. Lat by Obs 00.36.N
To Ends,
Wednesday Mar 10 All these 24 light breeze
from S.E. heading to N.E.
Lat by Obs 00.44.N
To Ends Long by Chr 83.03 W

Ship Sir Bedford in the Pacific Ocean 1849
Thursday March 11 All these 24 hours light breezes
and fine weather Wind S.E.by.E. Cours N.E
Latt by Obs 1.22.N
So Ends Long by Obs 82.53 W
Friday Mar 12 All these 24 hours light airs
& variables Current setting N.W. Latt by Obs .2.04.N
So. Ends, Long by Obs 82.41 W
Saturday Mar 13 All these 24 hours light breze
N.N.E set foare top mast studding sail
Cours E.by.S. Latt by Obs 1.03.N
So. Ends, Long by Chron 82.36 W
Sunday Mar 14 All these 24 hours moderat
light airs from S.by.W. Cours E.by.S. Latt by Obs 1.02.N
So. Ends. Long by Chro 82.02 W
Monday Mar 15 hours with a fine breze from
S.by.W. Cours E.by.S. Latt by Obs 1.04.N
So. Ends, Long by Chro 81.42 W
Tuesday Mar 16 First part and middle
fine breze from the North Employed
in Coopering Oil and putting it betwixt
decks Latter part thick weather Wind S.W
and light squalls of Rain Cours S.E.
Latt by Obs 1.12.N
So. Ends, Long by Ch 81.09 W
Friday Mar 17 All these 24 hours light airs
and variables & S.W. near the Land Cape
Land Francisco 25 miles Latt by Obs 00.00.8
So Ends Long by Chro 80.12
Saturday Mar 18 hours with light breezes
from West steering East Middel part steering
N.E by E at one P.M. hoist to with the head yards
shift and squalls attend with rain 3 P.M.
more tip and stood in for the land & To
wind S.W steering to the westward each sum
Matter and now bounded up to Sandwich
So Ends

1849

Remarks on Board Barke

Sunday March 19 1849
Com' with clear weather with a light breeze from West 6 P.M. lack of shoar Middel part fresh breeze and cloudy latter part light standing to the Westward Wind South current setting W land in sight 25 miles bearing E.

To Ends Lat by Obs 00.18 N

Saterday March 20 Com' with fine breeze from West Middel part squally and Main land in sight

To Ends.

Sunday Mar 21 These 24 hours moderat lieing to W Wind South land 20 miles of

To Ends

Monday Mar 22 Com' with light breze Middel part calm latter board a boat men over board of Schooner lat sum Stanley and Oringes land 6 miles Wind W by S

To Ends

Tuesday

May 23 Com' with fresh breeze from W.by.S. stood in shoar in a pallmes lack of again Middel and latter parts wind light and variables

To Ends

Wednesday Mar 24 Com' with fresh breeze from the South Middel and latter parts light airs and variables with heigh land 18 miles of current setting N W

To Ends.

Thursday Mar 25 Com' with a light breze S.W. 7 P.M. more hip steering W by N Enterd Rushing Ship bay and Francisco bearing N.N.E 20 miles

To Ends

Pacific Ocean

Ship Sea of New Bedford in the

Friday March 26 Cont with fresh breze from West Employed in washing. hij 5 & the Next Later crane Middel part calm drop anchor in 11 fathoms latter part reach the Bends and Painting them got under way run down to Tecumbes

So Ends

Saturday Mar 27 Cont with light breze 1 & the came to in 5 fathoms in Tecumbes wed down shore and filed the Water

So Ends

Sunday Mar 28 First part took a raft along side and anothe crew shore latter past all hand onre liberty discharge one man was sick

So Ends,

Monday Mar 29 Cont with light breze at 6 & the liberty men came onn board three run away one fast in the Stock latter part stowing away Water

So Ends

Tuesday Mar 30, Employed in fetching water of and stowing it away

So Ends

Wednesday Mar 31 Employed in giting Water discharge Hill sick sold 60 gals of Black Oil

So Ends

Thursday April 1st Employed in giting Water took one man out of the sun and he went to his duty

So, Ends.

Friday Apr 2 Employed in giting Water and stowing it away squall of Rain got some Wood

So Ends

Remarks On Board Bark Ingersoll

Saterday Apl 3 Comd with fine weather Employed in Weeding, Latter part got under way with a light breeze from the S.E.E. found up the coast from Tecumbus

So Ends

Sunday Apr 4 Comd with light breeze from West foot Isac 54x Brot and Alvom Bigg 36 in the sigen and flog them for running away Wind S.E.E.

So Ends.

Monday Apr 5 First and Middel parts light breeze from West Latter part wind E.S.E. and Rain saw black fish land in sight

So Ends Latt 4 Lly 00 m 4 x

Tuesday Apr 6 Comd with light breeze Catch 2 Black fish Middel part wind S.W. Employed boiling Black fish land in sight

So Ends.

Wednesday Apr 7 Comd with light breeze from West Middel and latter parts calm of Manta

So End

Thursday Apr 8 Comd with light breeze from West Latter part calm Sal a le Flat in sight sold one bls of Black fish oil

So Ends

Friday Apr 9 These 24 hours light breeze from West Employed Painting Water Ways Port St Helena bearing S.E. 20 miles

So Ends

Saterday Apr 10 These 24 hours light breeze Employed painting, Port St Helena bearing West 14 miles

So. End

of New Bedford On a Whaling Voyag in

Sunday April 11 1845 All these 24 hours fresh Breeze from W. & W. latter part spok the Brig Fairhack of Sandwich 20 months out with 900 lbs bark in sight

Latt by Obs 3.11 S

So Ends,

Monday April 12 All these 24 hours light breeze from W. & W. Employed in Painting

Latt by Obs 3.51

So Ends,

Tuesday April 13 Commenced with light breeze from S.W. Moderate and latter parts fresh breeze from S.E. course S.W. land in sight 10 P.M. tack to the Eastward Employed Tiring down the Rigen

Latt by Obs 4.58

So Ends

Wednesday April 14 All these 24 hours breeze from S.E. W. Pity head baring E.S.E. 20 miles

Latt by Obs 4.58 S

So Ends Long by Chr 81.24 W

Thursday April 15 Remarks on the board these 24 hours light breeze from W and fine pleasant weather Steering in for Playta head miles dist at sun set came to in six fat

So Ends

Friday April 16 these 24 hours employed Painting Ship

So End

Saturday April 17 All these 24 hours fine pleasant weather Tasted Water and liberty Employed Painting

So Ends

Remarks Onn Board Bark Emy

Sunday April 18. 1845 boms with
fresh breze Watch on liberty
To Ends
Monday April 19 boms with fresh breze
Broke out for Black fish Oil watch on
liberty
To Ends.
Tuesday April 20 boms with fresh breze
fetch of Potatoes sold 65½ galons of black
Oil
To End
Wednesday April 21 boms with fresh breze
Ship Harbony of New Bedford 29 months
out 800 of Whale and 400 firm Susan of
Nantucket back of bear 3 months out 800
Employed on Potatoes, discharge one man
To Ends
Thursday April 22 All these 24 hours fine
weather Employed in ships duty sold 99 galons
of black Oil
To Ends
Friday April 23 boms with fine weat
discharge one man latter part employe
fetching of Potatoes Watch on hoar lent
Coffin laing of and gone
To Ends
Saturday April 24 boms with fresh
breze Watch on shoar sold 160 galons
Black fish 6½ of Spirm
To Ends
Sunday April 25 boms with fresh
breze Middle and latter parts calm
sold 131 lb of Black fish Ship Belear of
New Bedford came in with some of
the crew down with the small Pocks
To Ends

ne of Stm Bedford in the Pacific

Monday April 26 1847

All these 24 hours fresh breezes ship a man Aboard deserted

So Ends

Tuesday Apr 27 Comm with fresh breze middel and latter part moderat have in the Chane and lost topsail

So Ends

Wednesday Apr 28 Comm with fresh bree from the South & At 8 dock the Anchor and stood out to Sea At latter part light breez took a black fish Saty head in sight standing in shoar

So Ends

Thursday Apr 29 All these 24 hours moderate standing to South Wind

So Ends Lat by Obs 3.1 S

Friday Apr 30 All these 24 hours light breez took 5 black fish

So Ends Lat by Obs 3.29

Saturday May 1 Comm with fresh breeze tack in light sails land in sight mine S.S.W

Lat by Ob 3.34

So Ends Long by Chron 81.25

Sunday May 2 All these 24 hours moderat Wind South Saty head bearing W.S.E 29 mile

So Ends

Monday May 3 Comm with fresh breezes steers down for Saty head & At 8 shorte sail and luft to off shoar latter part steering down for Saty

So Ends

Tuesday May 4 Comm with fresh breezes luffing off and over luft non shoar for the night did not find them Middel part steering S.W with light breezes from S.E latter part course W for and thick fogg

So Ends

Remarks on Board Part days and of
Wednesday May 5 Been with fresh Breezes
from S.E. saw a Sail 6 A.M. hoisting Sail
fore the Knight steering W by S Wind South
So Ends

Thursday May 6 All these 24 hours fine weather
Middle part day abeat latter part mod Sail
Employed in Repairing Main topgalant
all hours S by W wind South Lat by Obs 3.49
So Ends Long 83.20 W

Friday 7 Been with fresh breezes steering
W by N Wind S.E. Lat by Obs 2.40
So Ends Long by Ch 84.24 W

Saturday May 8 All these 24 hours fine breez
from S.E. Long by Lunar 85.38 W
Long by Chron 85.19
So Ends

Sunday May 9 All these 24 hours light breze
steering W.S.W 6 A.M. kept to W Lat by Obs 2.40
Long by Ch 86.29 W
So Ends

Monday 10 All these 24 hours moderat tack
in the Eastward Wind S.E. Lat by Obs 2.29
So Ends

Tuesday May 11 Been with light breezes saw
Whales board did not get any heading S.E.
So Ends Lat by Obs 2.22

Wednesday May 12 All these 24 hours light breez
from the South mostly Employed picking
Been wind East Lat by Obs 1.46
So Ends Long 85.52 W

Thursday May 13 First and Middel part light
airs latter part fresh breezes from S.E. Employed
mending the Foarsail steering to the East
So Ends Lat by Obs 1.15

Friday May 14 Been with fresh breezes 2 A.M.
more Ship heading W Middel part S.W latter part
steering W S.W. W.N.W. S.E. Lat by Obs 1.41
Long by Ch 87.02 W

Jim Bedford In the Pacific Ocean A D 1847

Saturday May 15 Comd with fresh breeze steering N W Latter part comes West wind S E by E

Latt by Obs 1.37

So End Long 87.49 W

Sunday May 16 Comd with fresh breeze steering W by N Middle part kept to the wind heading S by E, Latter part made fair wind S E by E course West

Latt by Obs 1.12

So Ends Long by Chron 88.19

Monday May 17 Comd with fresh breeze steering West saw black fish middle part heading S W Latter part made said steering West saw Head Isl bearing West 15 miles wind S E

So End

Tuesday May 18 Comd with fresh breeze steering down fore the land 3 A M a boat went over shoar fishing Chatham Isl six sight Latter part a boat went over being off and over Wind S E

So End

Wednesday May 19 Comd with fresh breeze the boat came over board kept up the harbor at 3 A M came to in 7 fathoms water down shoar for Wood Latter part employed in cutting wood

So Ends

Thursday May 20 All these 24 hours fine weather employed in wooding

So Ends

Friday May 21 Comd with fine weather Employed Wooding Latter part 2 Boats went down to Steevens Bay and fetch 36 Sterling

So Ends

Saturday May 22 Comd with fine weather one Boat piling Wood and fetching up Water for William Gerry So Ends

Remarks On Board Bark

Sunday May 23 Com with fresh breeze Employed in Wooding

So Ends

Monday May 24 All these 24 hours good weather Employed boating of things for mes Jerry to Pill took the Anchor for to go to Porters Isl with 8 Passengers with a fresh breeze from S. Ely S heading S. W.

So Ends

Tuesday May 25 All these 24 hours fresh breze middel part run of 2 hours W. S W under short sail then hald aback latter part run down to Porters Isl and at 8 P.M came to in 7 fathoms 2 Boats went over to Crosland Isl after Jerping

So Ends

Wednesday May 26 fresh breeze from the E a heavy swell from the South latter part Employed braking out the After hole

So Ends

Thursday May 27 All these 24 hours heavy swell 8 A.M the boats came onn board with 46 Jerping left one man onn the Isl latter part sent a Boat over to the Isl and found him Employed in fetching of 3 Jack Apes and fl

So Ends

Friday May 28 Com with fetching of 10 jack apes 12 Jerping let the Cooper gom onn board a Spanish Scooner and took one of the Isl in his room 9 P.M got under way with 4 more Passengers steering to the N.W. betwixt James and Albemar Islands

So Ends

Smyrna to Chatham Sit 1847

Saterday May 29 Com' with fresh breze stern
to N W Retrit of the Islands Middle and Latter
parts calme took Germys boat in mended his
N E part of Albemarl baring S by E 10 miles
So Ends

Sunday May 30 All these 24 hours calme
saw a Sail foot the boat out again Rock
Dunder baring S by W 18 miles
So Ends

Monday May 31 All these 24 hours light
airs spok the Barki Alfred Tyler 31 months out
with 700 of Sperm 300 of Whale of Rock Dunder
in sight
So Ends

Tuesday June 1 All these 24 hour moderat
Cours S by E saw a ship boiling saw Whales
board 2 boats the Alfred Tilers boat got one
Rock Dunder baring East 8 miles distance
So Ends.

Wednesday June 2 All these 24 hours light breze
from S to 2 ships in sight took the jackass on
deck wash out 1 boat went in to the Rock
So Ends

Thursday June 3 All these 24 hours the same
current setting S of the rock 2 ships in sight
one boiling
So Ends

Friday June 4 All these 24 hours light breze
and Variables one Jackass did saw black fish
caught 2 one ship in sight Rock bearing West
8 miles
So Ends

Saterday 5 Com with fresh breze from
W S W S at N side away and tide the Ship from
the Rock saw black fish got 2 stove the barrels
Dent Rock baring East 10 miles
So Ends

Remarks On Board Barb Smyrna &c

Sunday Jun 6 All these 24 hours light breze took in stowen boat port anchs, out courses setting S W one ship in sight North point of Albemarle bearing S.E. 23 miles

So Ends

Monday Jun 7 All these 24 hours calm Buried 2 Jackass hold out the Black fish 2 ships in sight North head bearing S E 33 miles

So Ends

Tuesday Jun 8 All these 24 hours moderat 2 ships in sight Winnans Isl bearing S by E 30 miles with a current S W

So Ends

Wednesday Jun 9 Begin with fresh breeze from the South heading E.S.E Middel and latter part more moderat 2 ships in sight Abington Isl bearing E.N.E. 30 miles Wind S by W

So Ends

Thursday Jun 10 Begins with light breze middel and latter part calm Winnans Isl bearing W.N.W. 28 miles current setting N W Latt 1.12 N

So Ends Long 91.26 W

Friday Jun 11 All these 24 hours light breez from S by E commited another Jackass to the deep latter part thick weather light squall of Wind S.W. by S

So Ends Latt by Obs 1.03 N

Saterday Jun 12 Begin with light breeze and clouds, Abingtons and Winnans Isl in sight standing to the Eastward Wind South

So Ends

Sunday Jun 13 Begin with light breze middel and latter parts fresh breez 6 Sett took in top galant sails and tack 1 the S W took in Gernes Boat buried 1 Jack ass Abington Isl bearing S W 20 miles Wind S by E & E

New Bedford Off North part of Albemarle

Monday June 14 Com' with fresh breeze made all sail 4 AM tack to the Eastward Middel and Latter parts beeting to albemarle At 7 PM Mr Gorny went on shoar for some grass for his Apes did not get any Wind S by E.

So Ends

Tuesday June 15 Com' with fresh breeze steering to the S.W. for Albemarle bent main Top galent sail 8 AM took in light sails 3 PM set them Latter part Calm 2 Barks in sight got Gornys boat out and went on shoar got some forder fore his Apes Rec Fund Rock bearing S W 6 miles

So Ends

Wednesday June 16 Com' with light breeze and variables gaming with the Bark Damon capt Davenport of Newport 8 months out with 80 bls Middel and Latter parts the same of North head

So Ends

Thursday June 17 Com' with fresh breeze from South Middel part the same Latter part light airs and variables of North head 3 sails in sight Employed mending main topgallentsail

So Ends

Friday June 18 Com' with light breeze from S by W Middel the same Latter part fresh breeze from S E heading to the S W have another Jack Ape overboard no land in sight Latt by Obs 00 03 S

So Ends

Saturday June 19 Com' with fine pleasant weather Wind S E Middel part the same Latter part body wind hauld to the South & back to the eastward with a fresh breeze Latt by Obs 00 54 S

So Ends

Memorandums On Board Barto Smyrna &c

Sunday June 20 Comd with fresh breeze and Cloudy Middel and latter part the same. 8 P.M. wind hald to the S.E by E. tack to S.W with a fresh breeze Salt by Ch 102 fathom

So Ends

Monday Jun 21 Comd with moderat breeze South part of Albemarl in sight tack to the E.N.E current rowing S.W. Middel and latter parts the same South part of Albemarl bearing N.E Wind S.E by S.

So Ends

Tuesday Jun 22 Comd with light breeze and cloudy courses N.E by E middel part took in light sail latter part Employed in giting 7 Jacks off our shear and other things to South head 2 Boats went in with a raft of Bls and it came away to blow lost 36 then came on board 2 Ships in sight

So Ends

Wednesday June 23 Comd with light gails and clear weather spoke the Triton of Warren Middel and latter parts more moderat heading south 2 P.M tack in shore 2 Ships in sight Wind E.S.E.

So Ends

Thursday June 24 Comd with light gails 2 Boats went in and landed things for Mr. Gerry at 4 A.M the Boats came on board singel reeft Topsails steeard down to weather bay for to look for Gerrys men and boat he had lost 6 A.M stood of shoar Middel and latter parts more moderat 2 boats went in again 8 and tides one ships in sight Wind S.W.

So Ends

Friday Jun 25 All these 24 hours moderat S.E.M boat came on board stood of shoar Employed middel stitching main Topsail

So Ends

New Bedford of the Galla
Saturday 26 All these 24 hour
from 6 hrs bent main Top
steering N E Employed m
current seting S. W. South he
So En
Sunday June 27 All these 24
hour S South part of Ilen
So E
Monday June 28 All these 2
Alemart in sight Wind
So E
Tuesday June 29 Com.d m
these Ships in sight Mercury
Employed mending main
So E
Wednesday June 30 These 24 h
Employed mending main
N.N.E 4 Ships in sight wind
So Eas
Thursday July 1 All these 2
from 6 hrs Employed men
of South head
So E
Friday July 2 All these 2
from 6 hrs 6 spoke the whaleship
22 months out 400 barrels
sight So Eas
Saturday July 3 These 24 h
from 6 hrs
So Eas
Sunday July 4 All these 24
South head in sigh
30 miles So Eas
Monday July 5 All these 24
6 hrs making short tacks of
So Eas

...ue Board Port ...
...ll these 24 hours fleeted
...breeze saw two Spanish
...E.

So ends
...ll these 24 hours pleasant
...ith General Moderate
...head wind S.E.

Ends,
...ours with fine weather
...that we saw a sigar
...s in sight wind S.E.

Ends
...saw with light breze
...the Middel part the wind
...E, for 2 ship in
...

...Ends
...saw with fresh breze
...been falling fell
...first wind at West
...night 1991

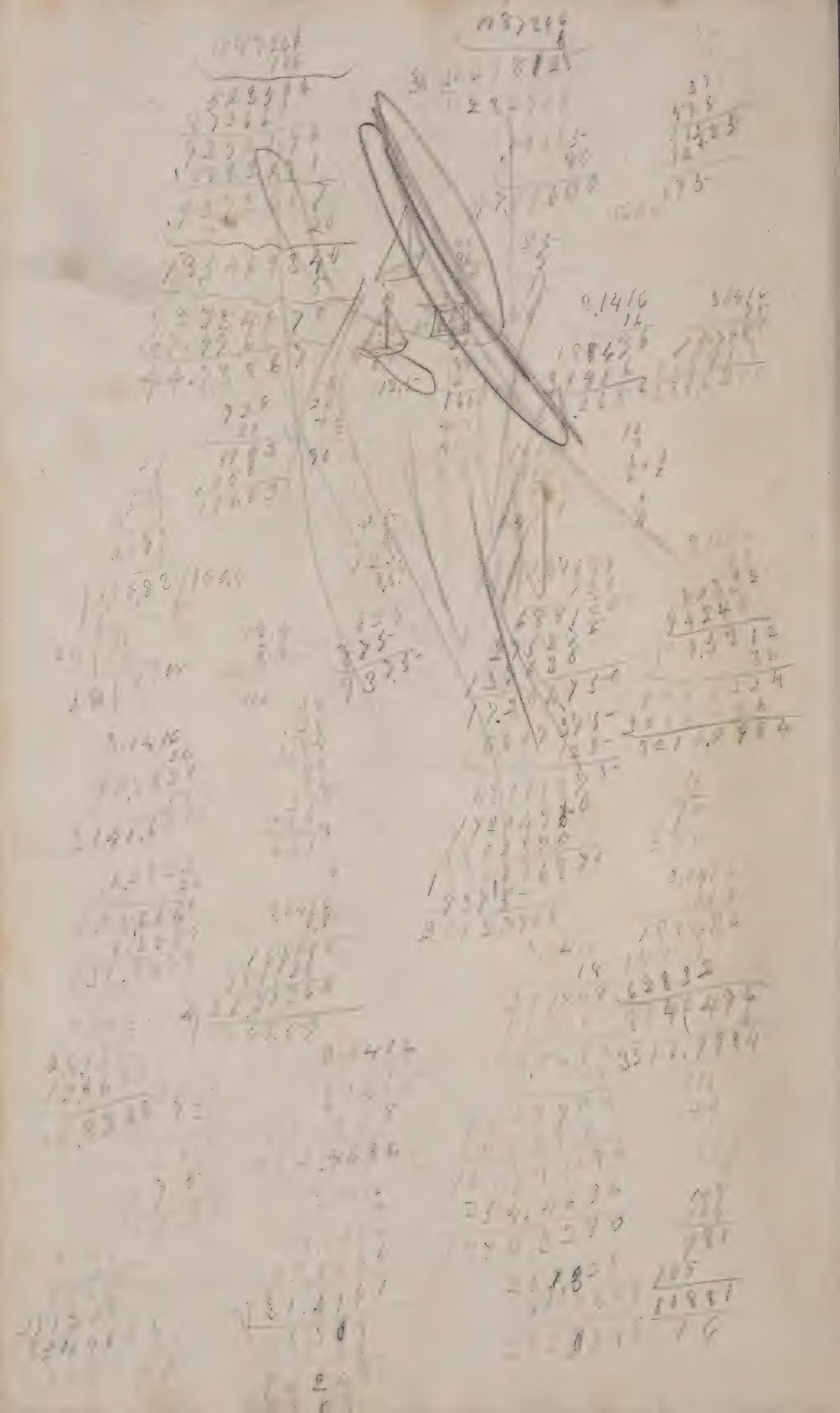
...Ends
...Gone with fresh breze
...the Wind hard all the
...evening we beat the
...S.E. betwixt both land

...So ends
...2 Gone with fine weather
...bearing Near Spall

...Ends
...13 All these 24 hours fresh
...d wind S.S.E Employ ob
...spall one ship in sight

...So Ends

Jos. A Hartford B
No 9 Bragg's Ct
Providence
R I



B 8

Washington

865 Washington

2936

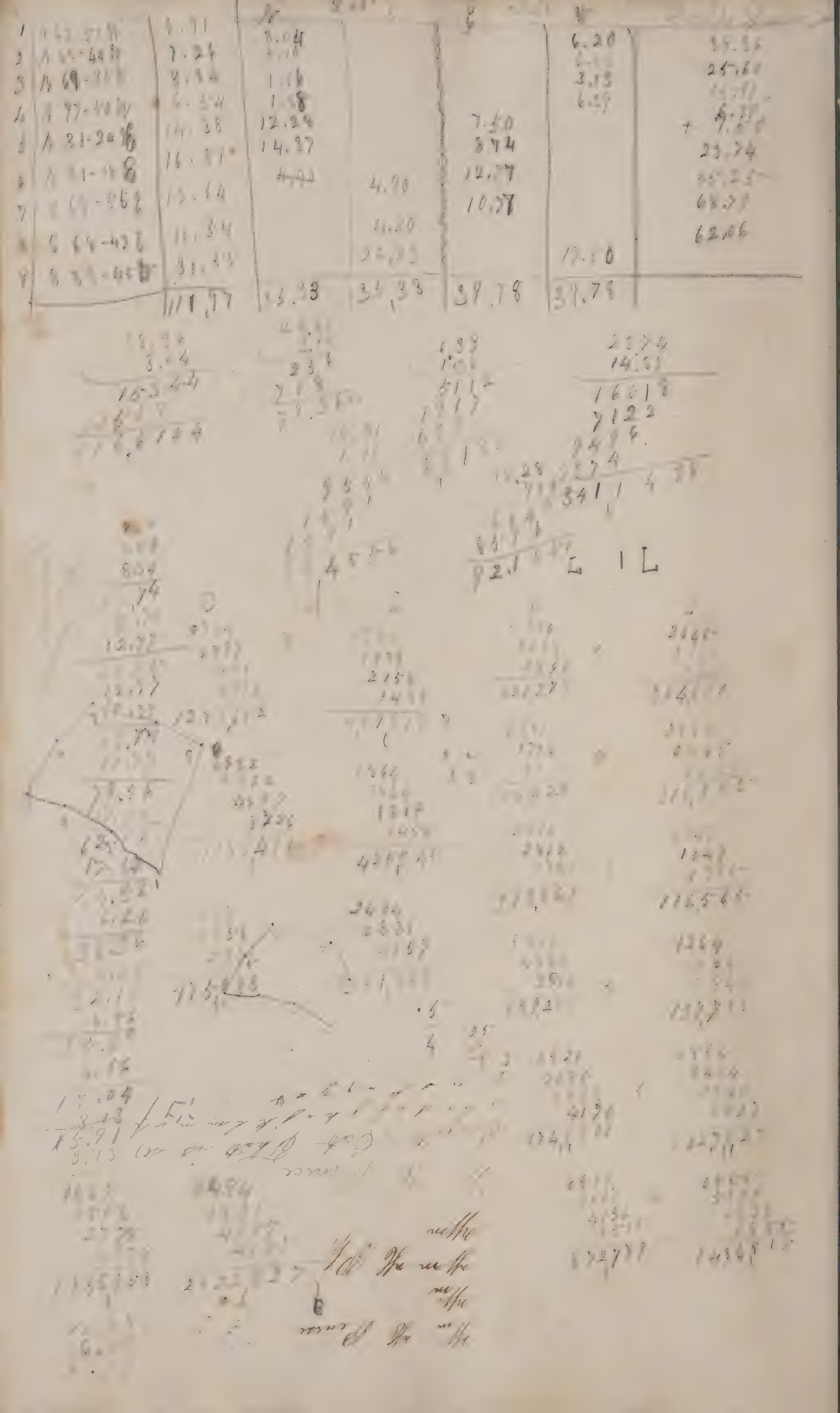
2880

Washington

Washington

Washington

1	[illegible]	5.11	8.04			6.20	35.56
2	[illegible]	7.24	[illegible]			[illegible]	25.60
3	[illegible]	[illegible]	1.14			3.13	[illegible]
4	[illegible]	[illegible]	1.58			6.54	[illegible]
5	[illegible]	14.38	12.24		7.50		+ [illegible]
6	[illegible]	16.[illegible]	14.97		3.74		23.74
7	[illegible]	13.14	~~4.00~~	4.80	12.77		[illegible]
8	[illegible]	11.34		11.20	10.78		62.06
9	[illegible]	31.[illegible]		[illegible]		17.10	
		111.97	13.33	31.38	39.78	31.78	



Jared Norton

$14 = 48$

$12.53 = 2.$
9.457299
1.516654

2.155935
9.793341
2.084682

12.153

2.511883
9.653333
2.177258

9.321150
$.477121$

$BC = 5.2 = 11$

$726 = 3.42 2550$
$= 2.$
$= 9$

12.5484
9.1

$7 = 36 = 39$

$35 = 1 = 39$
$= 21$

1568

9.492086
9.744739
255273
10.000012
2.327326

$11 = 1.204139$
$332.2 = 2.521926$
11.808523
1.724211

9.372041
2.317375

Washington

Mrs. Chase Place

Simpsons Hill

C Cape Pogey

tan b = 88 = 47 = 11 = 9.905655
cot a = 74 = 42 = 31 = 9.436811
cos C =
77 = 18 = 27
102 = 41 = 33

9.841866
9.2119

cos a = 74 = 42 = 31 =
cos G 77 = 18 = 27 =
180
2 = 19 = 19
176 = 40 = 41

9.421157
9.841866
8.763023

sin a = 74 = 42 = 31
sin C = 77 = 18 = 27

cos. b = 36 = 47 = 11 =
sin C 77 = 18 = 27 =

C = cot a, cot b

sin c = cos B, tan b
cot B =
tan b =

cot a = 9.746626
tan b = 9.5125

cos a = cos c cos b

cos c =
cos b =

cos a = cos b, cos c

cos b = 153 = 27 = 54
cos c = 29 = 46 = 18
37 = 50 = 47

sin B = 58 = 35 =
cos C = 56 =

9.737732

cos B = tan c cot a

tan c = 29 = 46 = 17 =
cot a = 37 = 50 = 47 =

42 = 32 = 17
137 = 27 = 17

sin b = sin a B

sin a 96 = 61 =
" b 78 = 63 = 72

sin c = sin b cot B

cos C = cot a, tan b

cot a = 37 = 50 = 47 = .1095
tan b = 24 = 32 = 56 9.6592

9.7689
9.7645

Washington

Boston Boston B B B O S T Thomas Thomas Thomas Thomas

A A B B B B B B C C C C

C C C C C C C D E F G

H I J K L M M M M M I M

N N O O P P P Q R S S S S

T T T T T T T

U U U V V V W W W

X X X X Y Y Y Y Y Z Z Z

a b c d d e f f f f amer r r r r r r r r americ an strict accountt

Many things which we do, we cannot tell whether it pays or not

A A A A A A A A A a a b c d e f g h h

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y v y y z z o oe ae & & I I B B I B C C C C C C

C C C C O O O O Washington O

B

B

B

B

$\Delta AB = \sin C . \sin b$

AB

$\sin AC' = \sin B . \sin c$

$\sin AC' = \sin C . \sin b$

$\sin b : \sin c :: \sin B : \sin C$

$BA = \sin C \sin a$

$BA = \sin A . \sin C$

$\sin a : \sin c :: \sin A : \sin C$

$-\cos b . \cos c = m \; m \; m$

$\cos(b+c) = \cos b . \cos c - \sin b . \sin c$

$-\cos b . \cos c = -\cos(b+c) + \sin b . \sin c$

$\sin c = \sin C . \sin a$

$\sin C . 161 = 23 = 9.504110$

$\sin a . 76 = 25 11 = 9.987685$

9.491795

$18 = 04 = 40$

A C A C C A C C O C O O O C C C C

C C C C C C C C C C C C C C C C

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C C C C C C C C C C C C C C C C

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B B B B B B B B B B B B B B B B

sin. p = sin B + sin. a − 10

sin B − 86 − 42 − 10 = 9.994257
sin. a − 57 − 38 = 9.926671
sin p = 66 − 29 − 1

sin. b = sin a + sin B + ac. sin A − 10

sin. a 57 − 38 = 9.926671
sin B 86 = 42 − 10 = 9.994257
sin A 95 − 14 = 9.221657
sin b = 47 − 57

95 − 14
86 − 42 − 10
14 − 33 = 56
135 − 88 − 10

57 − 38
56 − 49 − 57
114 − 27 = 57

tan ½ (A + B) = cos ½ (a − b) + cos ½ C + ac. cos ½ (a + b)

cos 26 − 12 − 20 = 9.952897
cos 75 − 17 − 06 = 9.421901
cos 86 − 25 − 39 = 9.246213
tan ½ (A + B = 16 − 25 − 39)

tan ½ C = cos ½ (A + B) + tan ½ (a + b) + ac. cos ½ (A − B)

cos ½ (A + B) − 57 − 38 − 41 = 8.526124
tan ½ (a + b) 57 = 13 + 66 = 1.913922
cos ½ (A − B) 7 − 16 − 55 = 1.331517
tan ½ C 3.09 = 08
6 = 18 − 18

tan ½ (A − B) = sin ½ (a − b) + cot ½ C + ac. sin ½ (a + b)

sin 26 − 12 − 20 = 9.645022
cos 75 − 12 − 06 = 9.421901
cos 86 − 25 − 39 = .221856
tan ½ (A − B) 11 − 06 − 53 = 9.277277

sin C = sin c + sin A + ac. sin a

sin C − 6 − 18 − 18 = 9.040685
sin A 95 − 14
× sin a − 57 − 38 =
sin. C − 7 − 24 − 4 =

Adam. A. Hand

172,59

sin p = sin B + sin a

sin B − 86 − 42 − 10 = 9.994257
sin a − 57 − 38 = 9.926671
sin p − 66 − 29 − 1

sin b = sin a + sin B + ac. sin A

sin a − 9.926671
" B − 9.994257
" A − .221657
" b − 9.922243
75 − 12 − 10

tan ½ c = cos ½ (A + B) + tan ½ (a + b) + ac. cos ½ (A − B)

cos ½ (A + B) − 54 − 10 = 9.767475
tan ½ (a + b) − 78 − 57 − 45 = 10.461832
× cos ½ (A − B) − 8 − 58 = 10.230349

tan ½ C 55 − 31 = 45
119 = 03 = 24

sin C = sin A + sin C + ac. sin a

sin A − 55 − 12 = 9.8154[illegible]
" C − 119 − 03 − 26 = 9.641579
× " a − 62 − 42 = 0.051286
" C − 43 − 45 − 32 = 9.876395

sin a − 9.926671
" B − 9.994257
" A − .221657
" b − 9.922243

Jared Norton I

L

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Manchester

Jared N

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Manchester

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Chicago

Washington

America

Boston Almira West Point Point

M

Manchester

Stations	Bearings	Lat. N	Lat. S	Dep. E	Dep. W
1	S 74 W 41.76		11.52		40.14
2	S 39 E 41.31	32.4	34.27	27.27	
3	S 32 E 17.11	14.5	14.6	9.53	
4	[illegible]	16.51	9.31	5.31	
5	S 30 E [illegible]	14.40	12.47	7.21	
6	S 29¼ E 32.14	12.96	[illegible]	14.51	
7	S 31 E 19.11		16.21	9.79	
8	S 32 E 61.11		51.73	32.62	
9	N 14½ E 31.[illegible]	11.96	27	27.51	
10	N 52½ E 12.44	7.57	25	9.77	
11	N 31 E 9.12	7.82	14	4.67	
12	N 40¼ E 9.11	5.54	14	4.52	
13	N 34½ E 13.28	7.96		10.35	
14	[illegible] 14.66	9.29	54-14-29	11.57	
15	[illegible] 16.[illegible]	5.52	44-13-45	15.86	
16	N 44½ W 58.72	41.68	40-20-44		41-16
17	[illegible] 32.11	15.13	26-[illegible]-29		13.99
18	[illegible] 46.10	36.25	28-28-14	30.23	28.32
19	N 34 W 45.33	33.24	64-14-07		
20	[illegible] 34.76	25.53		7.3	52.32
21	[illegible] 44.41		21.51		45.[illegible]
22	[illegible]	212.13	203.81	223.57	220.13
23		[illegible]			225.[illegible]
24		8.[illegible]	203.11	225	2.2
25					
	144-18-47		156		
	172-48-[illegible]		41.[illegible]		
	28-27-37				

A : B :: C : C

B - 48 = 29 = 48 - 9.87543

" C - 61 = 40 = 16 - 9.14461

" A - 126 - 37 = 30 0.19552

" C - 55 = 15 - 33 0.91455

C - 61 = 40 = 16 - 9.94461

" D 2094 4.85079

4188 0.95521

42 = 24 4.97620

41-16

13.99

28.32 146) 480 (3B

146

33

144-18-47

R R R R R R R R R R R R R P P P

A A A A A A A A A A A A A A A A

R R R R P P R R C C C C C C C

B B B B B B B B B B B B B B B

A A A A B B B B R B B B B

A - 126 = 37 = 30 - 9.904476

" b - 57 = 31 = 16 - 9.926237

" a 115 = 21 = 10 - .043921

" B 48 = 29 = 48 - 9.874435

91

(a+b) - 86 - 25 - 61 = 8.29 5613

(A+B) - 87 = 33 = 39 = 11 - 37 6668

.85 7833

(a-b) - 24 = 55 = 22 =

C - 32 = 6 = 26

223 45

42 87

438) 21 (49

17 42

49 13

44 217

4739

19 607

4 3 2

3 2 4

438) 18 94 (28

3 4 6

1 7 4 0

3 5 6

3 5 4 0

2 4

3 6 0

cos 4-17-05 = 9.998940

tan 38-17-45 = 9.810439

sin 35-15-05 = .167969

10.001848

45-05-20

5-05-10

50-10-30

40-00-10

1263

421) 8500 (20

842

sin 4-17-05 8.843735

tan 38-17-45 9.897439

sin 38-15-05 .208222

9.149396

148

2382) 9800 (09

21438

3620

2-9-8

177.03

sin 20-01-22 = 9.534179

tan 40-22-44 = 9.521460

× sin 64-14-07 = .045475

9.101114

487

1095) 6270 (37

5085

11850

7-11-37

31-15-23

40-44-31

31-16-23

32-36-17

9.572968

.361534

.473540

10.913343

23

9.534179

.045475

.478540

10.057194

17

81-15-45

47-49-38

1090 (38

35

21

cos 5-44-21 = 9.997945

tan 29-31-11 = 9.515551

× cos 75-53-11 = 7.823217

66-42-52

3-21-26

66-42-52

63-21-26

66-42-52

6-42-52

Boston

sin 45-05-20 = 9.851158

tan 4-17-05 = 8.844795

× sin 5-05-10 = 1.052528

9.748473

60-47-50

121-35-40

14-5-14

494) 5860 (

4940

8

74-23

35-46-14

21-34-22

sin 165-24-07 = 9.984116

" 31-41-07 = 9.712075

" 35-46-14 = 0.233185

× " 100-39 = 00.75546

19.936922

9.988461

38

53) 1920 (

1440

sin 165-24-07 = 9.984116

" 57-22-41 = 9.929551

× " 74-23 = 0.016335

107546

× " 100-39 = 19.979956

12-15-41

24-31-22

9.989978

sin 165-24-07 = 9.984116

" 4-45-07 = 8.917256

× " 74-23 = 0.016335

× " 35-46-14 = 0.233185

67-52-24

134-24-48

cos 66-42-52 = 9.6742

tan 75-53-59 = 10.0[illegible]

× sin 3-21-26 = 7.46

10.177185

785

615-29-49

cos 66-42-52 = 9.6742

tan 75-53-59 = 10.0[illegible]

× sin 3-21-26 = 7.46

10.177185

785

615-29-49

165-24-07

100-39

4-45-07

cos C = cos ½(a+b) + sin ½(A+B) + cos ½(a−b)

3.1416

78.54

314.16

1

31.416

157.080

78.54

1087266

26.1778

18

2094384

261798

4.712364

34-18-23

26-18-19

76-32-26

31-15-08

26

96

433

48

3464

432

173

21.434

a = 56 - 40
b - 88 - 13
c - 114 - 81

254 - 23
127 - 11 - 30
56 - 21
71 - 31 - 30

127 - 11 - 8
93 - 15
43 - 19

127 - 11 - 30
114 - 30
12 - 41 - 30

A 109 - 55 - 42
B 116 - 38 - 33
C 120 - 43 - 37

347 - 17 - 52
173 - 38 - 56
116 - 38 - 33
57 - 0 - 23

173 - 38 - 56
120 - 43 - 37
52 - 5 - 19

173 - 38 - 56
109 - 55 - 42
63 - 43 - 14

$\frac{5 \times 12}{10 \times 2} = \frac{6}{2} = 3$

$\frac{20 \times 5}{40 \times 5}$

$\frac{20 \times 8}{2 \times 40} = \frac{5}{10}$

$\frac{20 \times 8}{40 \times 2}$

$\frac{4}{2} = 2$

$\frac{52 \times 262}{312 \times 20} = \frac{10452}{12024} \frac{5}{6}$

$\frac{52 \times 306}{202 \times 66} = \frac{15912}{10202}$

$\frac{52 \times 66}{102 \times 126} = \frac{3432}{12026}$

a + b = p
a - b = q

a = a + b
b = p - a

a = q - p - a
2a = q - p
a = ½ (p + q)

b = p - (q + b)
2b = p - q
b = ½ (p - q)

sin 127-11-30 = 9.901346
" 70-21-30 = 9.974143
+ " 83-13 = .003051
+ " 114-30 = .041977
19.919892

24-12-45
[illegible]
[illegible]

s-B cos 57-00-23 = 9.736035
s-C " 62-55-19 = 9.780247
" 116-38-38 = .048742
" 120-43-37 = .065697
19.630728
9.815364
485
121

49-10-49

98-21-38

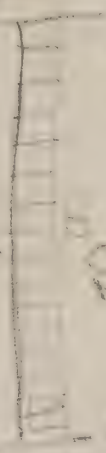
s-A cos 63-43-14 = 9.646168
s-C cos 62-55-19 = 9.780247
A sin 107-[illegible] = .026317
C sin 120-43-37 = .065697
19.518429
[illegible]

54-55-08

sin 127-11-30 = 9.901256
" 43-55-16 = 9.841374
= .178160
+ " 56-48 = .041977
+ " 114-30 = .061861

31-27-41

62-55-46



s-B [illegible] 9.736035
s-A [illegible]
B [illegible]
A [illegible]

sin 127-11-30 = 9.901256
" 12-41-30 = 9.341893
+ " 46-48 = .078066
+ " 81-15 = .011201
12.332415

12-30-24

126-11-11

s-B cos 63-51 = 9.996782
s-C " 55-28 = 9.743475
+ sin 125-28 = .080416
+ " 62-54 = .050606
19.889199
9.944599
650

s-A cos 62-52 = 9.536818
s-C " 55.28 = [illegible]
+ sin 125-30 = .125044
+ " 62-54 = .050606
19.466363
[illegible]

cos 62-52 = 9.326446
" 6-58 = 9.997733
.024116
+ sin 125-30 = .125044
+ " 62-54 = .050606
19.523939
[illegible]

sin (a+b) = sin a cos b + sin b cos a
sin (a-b) = sin a cos b - sin b cos a
sin (a+b) + sin (a-b) = 2 sin a . cos b

sin (a+b) = sin a cos b + sin b cos a
sin (a-b) = sin a cos b - sin b cos a
sin (a+b) - sin (a-b) = 2 sin b . cos a

cos (a+b) = sin a sin b - cos a cos b
cos (a-b) = sin a sin b + cos a cos b
cos (a+b) + cos (a-b) = 2 sin a sin b

cos (a+b) = cos a cos b - sin a sin b
cos (a-b) = cos a cos b + sin a sin b
cos (a+b) + cos (a-b) = 2 cos a cos b

cos (a+b) = cos a . cos b - sin a sin b
cos (a-b) = cos a . cos b + sin a sin b

cos (a+b) - cos (a-b) = -2 sin a . sin b
cos (a-b) - cos (a+b) = 2 sin a . sin b

a = 50
b = 40
c = 60
150
50
25

100
50
50
25

2a = p+q

sin (p+q) = 2 sin a =

$\cos A + \cos B$

Boston B B Boston

Boston Boston B B

B | B Boston B Boston

$$\frac{\sin p - \sin q}{\sin p + \sin q} = \frac{\cos\frac{1}{2}(p+q)\,\sin\frac{1}{2}(p-q)}{\sin\frac{1}{2}(p+q)\,\cos\frac{1}{2}(p-q)} = \frac{\tan\frac{1}{2}(p-q)}{\tan\frac{1}{2}(p+q)}$$

$$\frac{\sin p + \sin q}{\cos p + \cos q} = \frac{\sin\frac{1}{2}(p+q)\,\cos\frac{1}{2}(p-q)}{\cos\frac{1}{2}(p+q)\,\cos\frac{1}{2}(p-q)} = \tan\frac{1}{2}(p+q)$$

$$\frac{\sin p - \sin q}{\cos q - \cos p} = \frac{\sin\frac{1}{2}(p-q)\,\cos\frac{1}{2}(p+q)}{\sin\frac{1}{2}(p+q)\,\sin\frac{1}{2}(p-q)} = \cot\frac{1}{2}(p+q)$$

$$\frac{\sin p + \sin q}{\cos q - \cos p} = \frac{\sin\frac{1}{2}(p+q)\,\cos\frac{1}{2}(p-q)}{\sin\frac{1}{2}(p+q)\,\sin\frac{1}{2}(p-q)} = \cot\frac{1}{2}(p-q)$$

$$\frac{\sin p - \sin q}{\cos p + \cos q} = \frac{\sin\frac{1}{2}(p-q)\,\cos\frac{1}{2}(p+q)}{\cos\frac{1}{2}(p-q)\,\cos\frac{1}{2}(p+q)} = \tan\frac{1}{2}(p-q)$$

$$\frac{\sin p + \sin q}{\sin(p+q)} = \frac{\sin\frac{1}{2}(p+q)\,\cos\frac{1}{2}(p-q)}{\sin\frac{1}{2}(p+q)\,\cos\frac{1}{2}(p+q)} = \frac{\cos\frac{1}{2}(p-q)}{\cos\frac{1}{2}(p+q)}$$

$$\frac{\sin p + \sin q}{\sin(p-q)} = \frac{\sin\frac{1}{2}(p+q)\,\cos\frac{1}{2}(p-q)}{\sin\frac{1}{2}(p-q)\,\cos\frac{1}{2}(p-q)} = \frac{\sin\frac{1}{2}(p+q)}{\sin\frac{1}{2}(p-q)}$$

$$\frac{\sin(p-q)}{\sin p - \sin q} = \frac{\sin\frac{1}{2}(p-q)\,\cos\frac{1}{2}(p-q)}{\sin\frac{1}{2}(p-q)\,\cos\frac{1}{2}(p+q)} = \frac{\cos\frac{1}{2}(p-q)}{\cos\frac{1}{2}(p+q)}$$

$$\frac{\sin(p-q)}{\sin p + \sin q} = \frac{\sin\frac{1}{2}(p-q)\,\cos\frac{1}{2}(p-q)}{\sin\frac{1}{2}(p+q)\,\cos\frac{1}{2}(p-q)} = \frac{\sin\frac{1}{2}(p-q)}{\sin\frac{1}{2}(p+q)}$$

$\cos A = -\cos C\cos B + \sin B\sin C - \cos A$

Callao Boston Chicago Cincinatti C C C C C

America Amsterdam New York Jackson Mich.

Kalamazoo Earlville

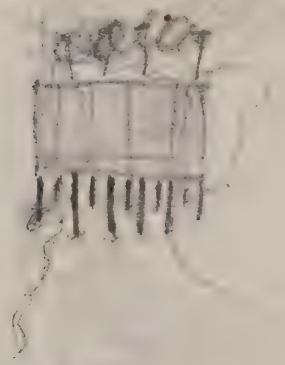
Marston

$\cos \frac{1}{2} C = \sin B \cos \frac{1}{2} c$

$\cos \frac{1}{2} C = \sin B \cos \frac{1}{2} s$

Mansion

Margaret N



Stat.	Dist	BSig	Datum Hig. Inst	FSig.	Total. H
A	[illegible]				
B	40	2-00	+2.00	6-00	-4.00
C	60	1.50	-2-50	8-00	-10-50
D	90	3.50	-7.00	10-00	-17.
E	70	2-50	-14-50	9-50	-24-00
F	80	6-50	-19-50	7-00	-24-50
G	100	8-00	-16-50	3-50	-20-00
H	50	11-50	-8-50	1-50	-10.00
I	90	14-00	+5.00	-50	+4-50
J	140	12-50	+17.00	1-00	+16-00
K	60	11-00	+27.00	2-50	+24-50
L	70	10-50	+35.00	3-50	+31.50
M	80	2-50	+34.00	9-00	+25.00
N	120	1-50	+26-50	16.00	+10,50
O	40	-50	+11.00	13.50	-2.50
P	70	0.00	-2.50	11-50	-14.00
	1045	89.00		103.00	14-00

A = 81
B = 61

N 51½ W
N 45 W
6½
61½
11½

134

S 74 E
N 61 E

N 73½ E
S 45 E
11 8½
5
6

N 3 W

F

N 73½ E
S 51½ E

B = 76
A = 81

E

A
B = 25

32,57
20,00
12,50

6m 61-80 =

9,913365
9,05385-9
8,967224
,244929
8,722295
1,826568
,548932
8863

9,943899
301030
,244929

32,50
3549
28,951

28,95) 12,500 (,432
1158
9200
8685
5150

N 20 1/4 E
45
65 1/4

,432 / 20,8
4
407) 3200

8,33
,207
5835
1674
17325,9

25p00

71 3/4
53

53 1/2

9,943899
20 = 1,301030
1,244929
9,861924
2 | 1,383005
,691502

9,903770
9,958154
9,861924

8-37 -4,91

8-37 = 5,49 = 2,88

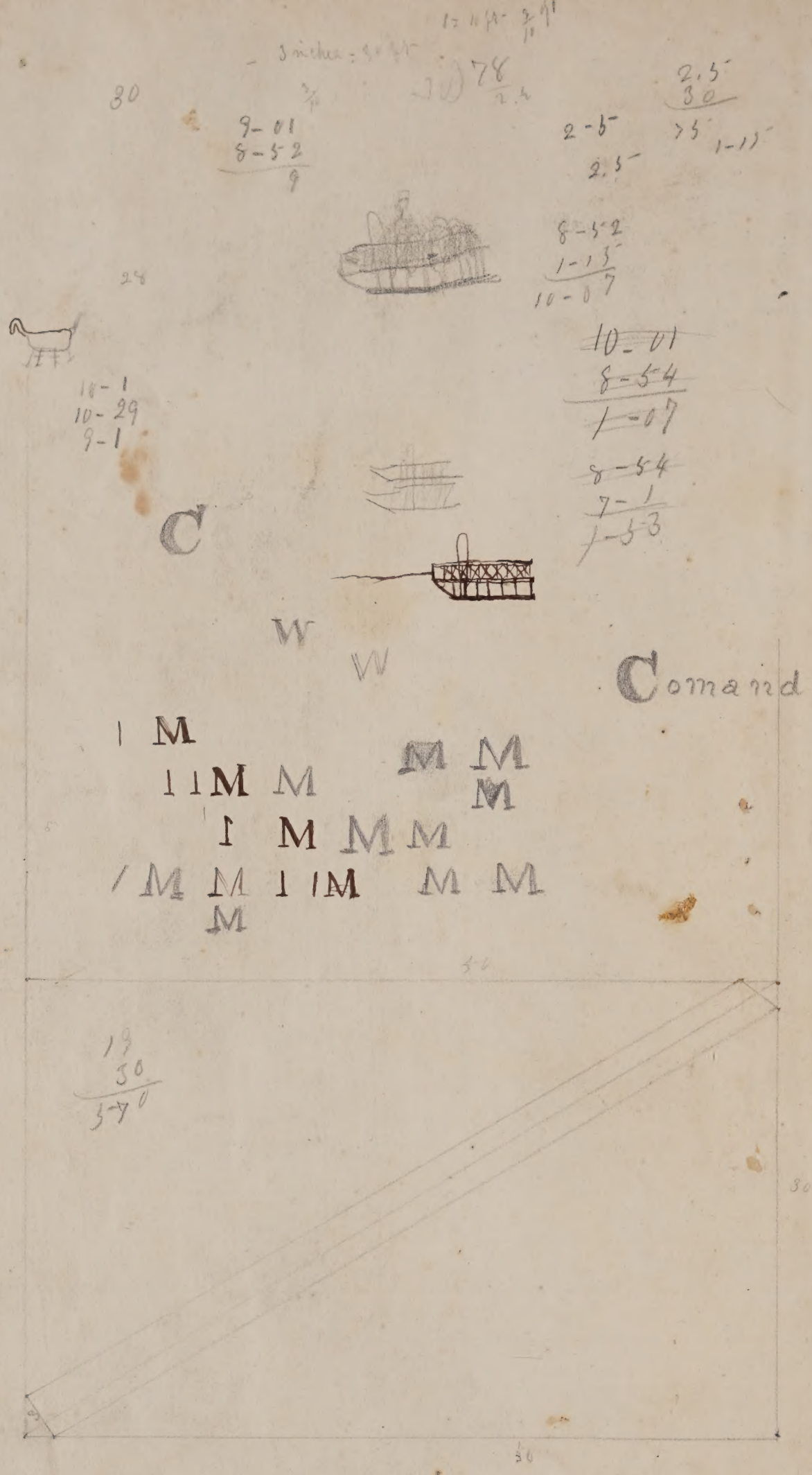
9,943899
1,339940
1,341839
9,861924
2 | 1,479915
,739957

365-6
24
1460
7306
8766

95
91
2
182
0
5-46

68,000 = 4,832509
8766 = 3,942801
8,775310

5961 [illegible]



$\sin 2a$

$$\frac{\sin 2a}{1+\cos 2a} = \frac{2\sin a.\cos a}{2\cos^2 a}$$

$$\frac{2\sin a}{\cos a} = \tan a$$

$$\frac{\sin 2a}{1-\cos 2a} = \frac{2\sin a.\cos a}{2\sin^2 a} = \cot a$$

C C

Edgartown
Mass